

[BILLING CODE 4140-01-P]

DEPARTMENT OF HEALTH AND HUMAN SERVICES National Institutes of Health

National Institute of Child Health and Human Development
Submission for OMB review; comment request
Stress and Cortisol Measurement Substudy for the National Children's Study

SUMMARY

Under the provisions of Section 3507(a)(1)(D) of the Paperwork Reduction Act of 1995, the National Institute of Child Health and Human Development (NICHD), the National Institutes of Health (NIH) has submitted to the Office of Management and Budget (OMB) a request for review and approval of the information collection listed below. This proposed information collection was previously published in the Federal Register on February 17, 2012, pages 9666-9668 (Volume 77, Number 33) of the Federal Register and allowed 60 days for public comment. One comment was received. The commenter questioned the value of the National Children's Study overall and suggested that the NCS be eliminated. The NCS is implemented to meet the requirements of the Children's Health Act of 2000 (Public Law 106-310). The purpose of this notice is to allow an additional 30 days for public comment. The National Institutes of Health may not conduct or sponsor, and the respondent is not required to respond to, an information collection that has been extended, revised, or implemented on or after October 1, 1995, unless it displays a currently valid OMB control number.

PROPOSED COLLECTION: *Title:* Stress and Cortisol Measurement Substudy for the National Children's Study (NCS). *Type of Information Collection Request:* NEW. *Need and Use of Information Collection:* The Children's Health Act of 2000 (Public Law 106-310) states:

(a) PURPOSE.—It is the purpose of this section to authorize the National Institute of Child Health and Human Development* to conduct a national longitudinal study of environmental influences (including physical, chemical, biological, and psychosocial)

on children's health and development.

- (b) IN GENERAL.—The Director of the National Institute of Child Health and Human Development* shall establish a consortium of representatives from appropriate Federal agencies (including the Centers for Disease Control and Prevention, the Environmental Protection Agency) to—
- (1) plan, develop, and implement a prospective cohort study, from birth to adulthood, to evaluate the effects of both chronic and intermittent exposures on child health and human development; and
- (2) investigate basic mechanisms of developmental disorders and environmental factors, both risk and protective, that influence health and developmental processes.
- (c) REQUIREMENT.—The study under subsection (b) shall—
- (1) incorporate behavioral, emotional, educational, and contextual consequences to enable a complete assessment of the physical, chemical, biological, and psychosocial environmental influences on children's well-being;
- (2) gather data on environmental influences and outcomes on diverse populations of children, which may include the consideration of prenatal exposures; and
- (3) consider health disparities among children, which may include the consideration of prenatal exposures.

To fulfill the requirements of the Children's Health Act, the Stress and Cortisol Measurement Substudy will develop an optimized, item-reduced measure of self-reported stress that is supported empirically through convergent validity analysis of stress biomarkers. Specifically, key moderators of stress biomarkers will be evaluated to inform the efficiency and quality of measurements during pregnancy. Development of a scientifically robust maternal stress measure would measure chronic stress more efficiently, would not require biospecimen collection and biomarker analyses, and would thereby reduce participant burden and NCS Vanguard (Pilot) and NCS Main Study costs. With this information collection request, the NCS seeks to obtain OMB's clearance to conduct a substudy aimed at developing a validated questionnaire that will reflect specific biological and physiological measures of maternal stress.

BACKGROUND: The National Children's Study is a prospective, national longitudinal study of the interaction between environment, genetics on child health and development. The Study defines "environment" broadly, taking a number of natural and man-made environmental, biological, genetic, and psychosocial factors into account. By studying children through their different phases of growth and development, researchers will be better able to understand the role these factors have on health and disease. Findings from the Study will be made available as the research progresses, making potential benefits

known to the public as soon as possible. The National Children's Study is led by a consortium of federal partners: the U.S. Department of Health and Human Services (including the *Eunice Kennedy Shriver_National Institute* of Child Health and Human Development and the National Institute of Environmental Health Sciences of the National Institutes of Health and the Centers for Disease Control and Prevention), and the U.S. Environmental Protection Agency.

To conduct the detailed preparation needed for a study of this size and complexity, the NCS was designed to include a preliminary pilot study known as the Vanguard Study. The purpose of the Vanguard Study is to assess the feasibility, acceptability, and cost of the recruitment strategy, study procedures, and outcome assessments that are to be used in the NCS Main Study. The Vanguard Study begins prior to the NCS Main Study and will run in parallel with the Main Study. At every phase of the NCS, the multiple methodological studies conducted during the Vanguard phase will inform the implementation and analysis plan for the Main Study.

In this information collection request, the NCS requests approval from OMB to perform a multi-center substudy, called the Stress and Cortisol Measurement Substudy. This substudy aims to determine the most reliable, acceptable, and cost-efficient approach for assessing maternal stress. Maternal stress is of particular interest to the NCS due to studies that have shown an association between maternal stress and negative health outcomes, including preterm birth which is one of the most important problems in maternal-child health in the US. Stress factors are also more prevalent in the population of socio-demographically disadvantaged women who are at an increased risk for preterm birth. Maternal stress is associated with additional health outcomes, such as still-birth, low birth weight, problems in offspring brain function and behavior (including lower IQ and impaired executive function), immune-related problems such as allergies and asthma, congenital malformations, infections, and numerous disorders of organ systems.

Development of a scientifically robust and validated questionnaire to reflect specific physiological measures of stress would allow us to measure chronic stress more efficiently, would not require biospecimen collection and biomarker analyses, and would thereby reduce participant burden and Study costs. To develop this instrument, the NCS will collect several types of information from substudy participants through medical

record abstraction, questionnaires (a series of validated stress measures), physiological measures (heart rate and self-reported stress), and several types of biospecimens.

Frequency of Response: Annual [As needed].

Affected Public: Pregnant women and their children.

Type of Respondents: Pregnant women who are not geographically eligible to enroll in the NCS Vanguard Study.

Annual reporting burden: See Table 1. The annualized cost to respondents is estimated at: \$73,500 (based on \$10 per hour). There are no Capital Costs to report. There are no Operating or Maintenance Costs to report.

Table 1. Estimated Annual Reporting Burden and Cost Summary, Stress and Cortisol Measurements						
Data Collection Activity	Type of Respondent	Estimated Number of Respondents	Estimated Number of Responses per Respondent	Average Burden Hours Per Response (in hours)	Estimated Total Annual Burden Hours	Estimated Total Annual Respondent Cost
	Members of	•	•			
	NCS target population (not NCS					
Screening	participants)	2,100	1	5/60	175	\$1,750
Saliva Self- Collection	Members of NCS target population (not NCS	,				1, 7,
Demonstration	participants)	700	1	15/60	175	\$1,750
Urine Self- Collection	Members of NCS target population (not NCS					
Instructions	participants)	700	1	5/60	58	\$583
Ecological Momentary Assessment	Members of NCS target population (not NCS					
Training	participants)	700	1	30/60	350	\$3,500
Visit 1 Stress	Members of NCS target population (not NCS					
Questionnaire	participants)	700	1	60/60	700	\$7,000
Adult Blood	Members of NCS target population (not NCS	700		20/60	700	\$7,000
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Data Collection Activity	Type of Respondent	Estimated Number of Respondents	Estimated Number of Responses per Respondent	Average Burden Hours Per Response (in hours)	Estimated Total Annual Burden Hours	Estimated Total Annual Respondent Cost
	participants)					
	Members of NCS target					
	population (not NCS					
Adult Urine	participants)	700	1	15/60	175	\$1,750
	Members of NCS target population (not NCS					
Adult Hair	participants)	700	2	15/60	350	\$3,500
	Members of NCS target population (not NCS					
Adult Saliva	participants)	700	28	3/60	980	\$9,800
Demographic and Health	Members of NCS target population (not NCS					
Interview	participants)	700	1	60/60	700	\$7,000
Participant Contact Information	Members of NCS target population (not NCS			7 .150		4.702
Sheet	participants)	700	1	5/60	58	\$583
Take-Home Questionnaire	Members of NCS target population (not NCS participants)	700	1	30/60	350	\$3,500
Questionnaire	Members of NCS target population (not NCS	700	1	30/00	330	\$3,500
Time Diary	participants)	700	72	2/60	1,680	\$16,800
Heart	Members of NCS target population (not NCS				,	. ,
Monitoring	participants)	700	1	2/60	23	\$233
	Members of NCS target population (not	730	1	2/00	2.3	ΨΔΟΟ
Visit 2 Stress Questionnaire	NCS participants)	700	1	45/60	525	\$5,250

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Data Collection Activity	Type of Respondent	Estimated Number of Respondents	Estimated Number of Responses per Respondent	Average Burden Hours Per Response (in hours)	Estimated Total Annual Burden Hours	Estimated Total Annual Respondent Cost
Stressful Life Events Schedule Checklist	Members of NCS target population (not NCS participants)	700	1	30/60	350	\$3,500
Total		2,100			7,350	\$73,500

REQUEST FOR COMMENTS: Written comments and/or suggestions from the public and affected agencies are invited on one or more of the following points: (1) Whether the proposed collection of information is necessary for the proper performance of the function of the agency, including whether the information will have practical utility; (2) The accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (3) Ways to minimize the burden of the collection of information on those who are to respond, including the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology.

DIRECT COMMENTS TO OMB:: Written comments and/or suggestions regarding the item(s) contained in this notice, especially regarding the estimated public burden and associated response time, should be directed to Office of Management and Budget, Office of Information and Regulatory Affairs, Attn: NIH Desk Officer, by E-mail to OIRA_submission@omb.eop.gov, or by fax to 202-395-6974. To request more information on the proposed project or to obtain a copy of the data collection plans and instruments, contact Ms. Jamelle E. Banks, Public Health Analyst, Office of Science Policy, Analysis and Communication, National Institute of Child Health and Human Development, 31 Center Drive Room 2A18, Bethesda, Maryland, 20892, or call a non-toll free number (301) 496-1877 or E-mail your request, including your address to banksj@mail.nih.gov.

COMMENTS DUE DATE: Comments regarding this information collection are best assured of having their full effect if received within 30 days of the date of this publication.

Dated: May 16, 2012

Jamelle E. Banks,

Project Clearance Liaison, Office of Science Policy, Analysis and Communications National Institute of Child Health and Human Development

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